

Claims

1. A medical syringe comprising:

a syringe unit including a lure and a syringe body; and

5 a cylindrical connection supporting member that is slidably or detachably provided on the syringe unit, and increases a holding force of the lure when the syringe unit is in a connected state.

2. The medical syringe of Claim 1, wherein

10 in the slidable construction, the connection supporting member is formed to be slid along the lure or the syringe body in a state of being movable between a first position near a tip of the lure and a second position away from the tip of the lure, while remaining engaged with the syringe unit.

3. The medical syringe body of Claim 1, wherein

15 in the detachable construction, the connection supporting member is formed to be detached from the syringe unit using a predetermined disengagement operation.

4. A medical syringe comprising:

a syringe unit including a lure and a syringe body; and

20 a cylindrical connection supporting member that is rotatably provided on the syringe unit, and increases the holding force of the lure when the syringe unit is in a connected state.

5. The medical syringe of Claim 4, wherein

the connection supporting member is slidably or detachably

provided on the syringe unit.

6. A medical syringe comprising:

a syringe unit including a lure for inserting into a connection

5 target, and a syringe body; and

a connection supporting member that increases a holding force of the lure when the syringe unit is connected to the connection target, wherein

10 the connection supporting member is slidably provided on the lure or the syringe body in a state of being movable between a first position near a tip of the lure and a second position away from the tip of the lure, and

when the connection supporting member is moved to the second position, the tip of the lure is exposed.

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7. The medical syringe of Claim 6, further comprising:

a contact part that is provided on the lure or on the syringe body, and contacts the connection supporting member when the connection supporting member is moved to the first position, to prevent
20 movement of the connection supporting member from the first position towards the tip of the lure.

8. The medical syringe of Claim 7, wherein

25 the sliding of the connection supporting member is realized by inserting the lure or syringe body into a through hole provided in the connection member,

the contact part is a large diameter part provided on an external periphery of the lure or the syringe body, and

spiral grooves are provided in a peripheral surface of the contact part.

9. The medical syringe of Claim 6, wherein

5 when in the second position, the connection supporting member is fitted to the lure or the syringe body by a holding force that is at least sufficient to prevent the connection supporting member dropping under own weight.

10 10. A medical syringe comprising:

a syringe unit including a lure for inserting into a connection target, and a syringe body; and

15 a connection supporting member that increases a holding force of the lure when the syringe unit is connected to the connection target, wherein

one of the lure and the connection supporting member has a small diameter portion sandwiched between large diameter portions,

20 the other of the lure and the connection supporting member has a first member that has a first opening in a main surface thereof, and a second member that has a second opening in a main surface thereof,

25 the first and second members oppose one another with the main surfaces thereof near or contacting one another, and at least one of the members is displaceable relative to the other member, such that a hole in plan view formed by the first and second openings overlapping changes between a first size that permits insertion of the large diameter portion and a second size that prevents insertion of the large diameter portion.

11. The medical syringe of Claim 11, wherein
the first and second members are included in the connection
supporting member,

the large and small diameter portions are included in the lure,

5 the second member is a cylindrical member with a base, and
includes a locking mechanism for engaging the connection target,

the second opening is in the base of the second member,

the first member has an elastic body that applies a force,
such that the hole is the second size.

10 12. The medical syringe of Claim 10, wherein
the first and second members are included in the connection
supporting member,

the large and small diameter portions are included in the lure,

15 the connection supporting member has a third member that
includes a locking mechanism for engaging the connection target,

the first and second members are slidably provided in the third
member, and have respective elastic bodies that apply forces, such
that the hole is the second size.

20 13. A medical syringe comprising a lock connector for connecting
the syringe to a connection target, wherein

the lock connector includes a cylindrical connector body,

25 a syringe body is inserted through the connector body and an
elastic body is interposed between an external surface of the syringe
body and an internal surface of the connector body, and

the syringe body is held with the connector body by a restoring
force of the elastic body.

14. The medical syringe of Claim 13, wherein the elastic body is composed of a spring body.

5 15. The medical syringe of Claim 13, wherein the elastic body is composed of an elastomer.

16. A medical syringe including a lock connector for connecting the syringe to a connection target, wherein

10 the lock connector has a cylindrical connector body and a protrusion formed on an internal surface of the connector body,

a syringe body has a return groove that extends in a syringe axial direction provided in an external surface thereof, and

the lock connector is held so as to be moveable back and forth,

15 the syringe body being inserted into the connector body, and the protrusion of the connector body being fitted in the return groove of the syringe body.

17. A medical syringe including a lock connector for connecting 20 the syringe to a connection target, wherein

the lock connector has a cylindrical connector body, and a return groove extending in a syringe axial direction is provided in an internal surface of the connector body, and

25 a syringe body has a protrusion formed on an external surface thereof, and

the lock connector is held so as to be moveable back and forth, the syringe body being inserted into the connector body, and the protrusion of the syringe body being fitted in the return groove

of the connector body.

18. The medical syringe of Claim 16 or 17, wherein
an engagement groove is provided that communicates with the
5 return groove and extends in a syringe circumferential direction,
and

the syringe body and the connector body are engaged by the
protrusion being fitted into the engagement groove.